L Number	Hits	Search Text	DB	Time stamp
1	695	vpi same vci same assign\$5	USPAT;	2004/03/29 09:41
-		,	US-PGPUB;	
			EPO; JPO	
2	82	vpi same vci same assign\$5 near10 (user\$	USPAT;	2004/03/29 09:42
-	•	or client\$1)	US-PGPUB;	1
			EPO; JPO	
3	20	vpi same vci same preassign\$5	USPAT;	2004/03/29 09:47
			US-PGPUB;	
			EPO; JPO	
4	1	5583864.pn. and apd	USPAT;	2004/03/29 09:47
		•	US-PGPUB;	
			EPO; JPO	

Dustin, Looks like them is
a lot of references on preassinguling
Whal circuits (VPI/VCI) - Mense
take a look
Thank, Joh

5539884

DOCUMENT-IDENTIFIER:

US 5539884 A

TITLE:

Intelligent broadband communication

system and method

employing fast-packet switches

----- KWIC -----

Detailed Description Text - DETX (24):

The signaling cell header includes $\underline{\text{preassigned}}$ values of $\overline{\text{VPI}}$ and $\overline{\text{VCI}}$ that

identify it as a signaling cell. When the BIN SCP 61 reads the signaling cell

values of <u>VPI and VCI</u>, the BIN SCP 61 determines that a signaling cell has been

received, reads the signaling cell payload, and generates the translation

information after performing such functions as carrier identification, address

translation, and billing validation. In effect, the signaling mechanism of the

invention is a virtual signaling channel between each customer and the BIN SCP

61 since signaling cells can be transmitted through the virtual signaling channel on demand.

Detailed Description Text - DETX (37):

The cell 214 contains a header 216 having encoded information including an

identification of the cell 214 as a signaling cell by a preassigned value of

VPI and VCI or by payload type. The cell 214 further
contains a payload 218

carrying information including: function requested, calling party address,

called party address, billing address, and channel bandwidth requested.

5583864

DOCUMENT-IDENTIFIER: US 5583864 A

TITLE:

Level 1 gateway for video dial tone

networks

----- KWIC -----

Detailed Description Text - DETX (310):

In response to the connection establishment request, the access subnetwork

controller 1240 first identifies an APD 1174 having available bandwidth capable

of supporting the requested session and allocates a VPI/VCI value preassigned

to that APD. The Level 1 Gateway 1108 will use a standard data transmission

format, not necessarily MPEG. For non-MPEG transmissions, the APD 1174 will

extract data from ATM cell payloads and encapsulate the data in MPEG-2 packets.

Preferably the APD 1174 is preprogrammed to process cells having the allocated

VPI/VCI value in a particular manner, i.e. to provide the correct PID values in

the resultant MPEG packets and to output the packets on an identified one of

the five output rails to result in transmission over a known RF channel. Ιf

not preprogrammed, the access controller 1240 instructs the assigned APD 1174

to provide the correct PID value in the MPEG packets and to output the packets

on the identified output rail for result in transmission over a known RF

channel. The access subnetwork controller 1240 therefore effectively

determines the connection block descriptor that will apply for this session

between the Level 1 Gateway 1108 and the DET 1218.

5677905

DOCUMENT-IDENTIFIER: US 5677905 A

TITLE:

Access subnetwork controller for

video dial tone

networks

----- KWIC -----

Detailed Description Text - DETX (111):

Alternatively, the level 2 gateway 1401 accepts the call, provides a server

output port and gives a port identification for the port on the server 1403 to

the level 1 gateway 1230. The VIP's server output port is preassigned an

originating VPI value and a range of originating VCI values, based on the

maximum number of channels through the network that the VIP purchased for this

server port. The level 2 gateway 1401 therefore assigns an available **VCI** value

from that range to the session and forwards the VPI and VCI together with a

desired bandwidth for the session to the level 1 gateway 1230.

Detailed Description Text - DETX (112):

In response to the acceptance message from the level 2 gateway 1401, the

level 1 gateway transmits a connection request to the Access Subnetwork

Controller 1231 requesting a channel of the desired bandwidth through the

access subnetwork to the subscriber's DET 1217. The Access Subnetwork

Controller 1231 determines if the bandwidth is available on the fiber 1415

going to the HDT 1180 serving the particular subscriber. The HDT 1180 is

preassigned a range of terminating VPI/VCI values. Access Subnetwork

Controller 1231 therefore assigns an available $\underline{\text{VPI/VCI}}$ value from that range to

the session. The Access Subnetwork Controller 1231 instructs the serving $\ensuremath{\mathsf{HDT}}$

1180 to route cells having that $\underline{\text{VPI/VCI}}$ value from the fiber 1415 to the

channel assigned to the DET 1217 on the fiber 1190 and thus through the ONU

1210 and the subscriber's drop 1215 to that DET. The Access Subnetwork

Controller 1231 also transmits a reply message to the level 1 gateway 1230

indicating that the link through the access subnetwork has been established.

The reply message includes an identifier of the port for the fiber 1415 to the

serving HDT 1180 and the assigned terminating VPI/VCI value.

Detailed Description Text - DETX (344):

In response to the connection establishment request, the Access Subnetwork

Controller 2240 first identifies an APD 2174 having available bandwidth capable

of supporting the requested session and allocates a VPI/VCI value preassigned

to that APD. The level 1 gateway 2108 will use a standard data transmission

format, not necessarily MPEG. For non-MPEG transmissions, the APD 2174 will

extract data from ATM cell payloads and encapsulate the data in MPEG-2 packets.

Preferably the APD 2174 is preprogrammed to process cells having the allocated

vPI/VCI value in a particular manner, i.e. to provide the
correct PID values in

the resultant MPEG packets and to output the packets on an identified one of

the five output rails to result in transmission over a known RF channel. If

not preprogrammed, the Access Subnetwork Controller 2240 instructs the assigned

APD 2174 to provide the correct PID value in the MPEG packets and to output the

packets on the identified output rail for result in transmission over a known

RF channel. The Access Subnetwork Controller 2240 therefore effectively determines the connection block descriptor that will apply for this session between the level 1 gateway 2108 and the DET 2218.

6108708

DOCUMENT-IDENTIFIER: US 6108708 A

TITLE:

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Connection-oriented network using

distributed network

resources and predetermined VPIs for

fast VC

establishment

----- KWIC -----

Detailed Description Text - DETX (7):

If the source route is stored in the source route table 120, the decision at

step 202 is affirmative, and the source user selects VPI and VCI all by itself

from its own network resource (step 207) and sends a FAST SETUP packet to the

network, containing the selected VPI/VCI in the allocated VPI/VCI field of the

packet for message transmission, the source route data stored in the source

route table 120 corresponding to the destination address and a header

containing the selected VPI and a VCI which is preassigned for signaling purposes (step 208).

Detailed Description Text - DETX (15):

Assume that the user terminal 100 wishes to send a message to the user

terminal 101 using a normal SETUP packet. Initially, the decision at step 202

is negative, and source user 100 sends a normal SETUP packet to the network,

which is received by each successive node along the route. Each node examines

the destination address in the packet and selects an output port number OP, a

VPI, and an appropriate VCI for message transmission, and sets the OP and VPI

values into the packet as the route records of the nodes, and sets the VPI into the packet's header and the VCI into the allocated VCI field of the packet and forwards the packet to a downstream node where a new route record is added to the previous record routes. As illustrated in FIG. 4A, OP and VPI values (OP1, VP1), (OP3, VP2), (OP2, VP3) are successively set up in the header translation tables of nodes 110, 111 and 113 and added to the packet as their route records, producing a source route (OP1, VP1), (OP3, VP2), (OP2,: VP3). At the intermediate node 112, the VPI value in the packet's header is rewritten according to a value preassigned to the cross-connect path. At the destination terminal 101, the source route data is inserted into a normal CONNECT packet, and the packet is sent back from the destination user to the source user terminal 100, signaling successful receipt of the SETUP packet in response to the normal CONNECT packet, the source user terminal saves the source route data into the source route table 120 (step 205) and sends a data message over the established virtual connection (step 206).

Detailed Description Text - DETX (18):

More specifically, when the source user 100 sends a FAST SETUP packet 500, it selects a message-transmission VCI=VCO and a VPI=VPO according to the destination address from its own network resource, inserts the source route data of the destination into the source route field of the packet, as shown in FIG. 5, sets the hop count to 1, sets the selected VCO into the allocated field of the packet, and sets the selected VPO and a preassigned signaling VCI=(S) into the header.

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